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Navy Tr<sup>#</sup>3638/RMS 825

Sci - Biol & Med  
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The Influence of Mineral Salt Nutrition on the Content of Free Amino Acids and Monosaccharides in the Leaf and the Importance of This Nutrition for the Susceptibility of the Plant to Parasitic Fungi I and II, by E. Klein.

SWEDISH, per, Bayerisches Landwirtschaftliches Jahrbuch, Vol XXXIII, No 2, pp 224-241, No 3, pp 347-367, 1956.

CSIRO 3377

Sci - Biol

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Feb 62

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Elucidation of the Mechanism of Photographic  
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No 5, 1958, pp 505-519

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Sep 59  
Vol II, No 2

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The NEPH Properties of Photographic Coatings  
Subjected to Electron Radiation, by  
H. Prösch, E. Klein, 29 pp.

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pp 337-346.

REC-11-3585  
SL: 59-10471

Sci - Phys

JUL 59

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61-12801

Klein, E.  
THE INFLUENCE OF SILVER COMPLEX FORMING  
AGENTS IN THE DEVELOPER ON THE PROPERTIES  
OF THE NEGATIVE AND THE REVERSAL DENSITY  
CURVE. [1960] 14p.  
Order from ATS \$18.95

ATS-05N48G

Trans. of Z[eitschrift für] Wiss[enschaftliche] Phot[og]-  
raphie, Photophysik und Photochemie (East Germany)  
1960, v. 54, no. 1/3, p. 5-24.

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1. Photographic film--  
Processing
  2. Silver--Chemical reactions
- I. Klein, E.
  - II. ATS-05N48G
  - III. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

(Materials--Photographic, TT, v. 5, no. 8)

62-14093

Klein, E.  
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THE SIZE OF THE DEVELOPED UNITS OF SILVER.  
[1961] [22]p. 9 refs.  
Order from SLA \$2.60

62-14093

I. Klein, E.

Trans. of Zeitschrift für Elektrochemie (West  
Germany) 1958, v. 62, no. 9, p. 993-999.

DESCRIPTORS: \*Colors, \*Silver, Measurement,  
\*Electron microscopy, Chemical analysis, Colloids,  
\*Photographic emulsions, Particle size.

A254886

(Materials--Photographic, TT, v. 10, no. 11)

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Properties of Vacuum-Treated Steels, by C. E.  
Pottgiesser, A. Nieher, E. Klein.

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1959, pp 468-472.

HB 4604

Sci - Min/Mat

Nov 59

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I. Klein, E. E.

THE OXIDATION OF GLUTAMINIC ACID AND ITS  
QUANTITATIVE DISTRIBUTION IN VARIOUS PARTS  
OF THE BRAIN. [1962] [11]p. 11 refs.  
Order from OTS or SLA \$1.60

62-20324

Trans. of Akademiya Nauk Gruzinskoi SSR [Trudy].  
[Soobshcheniya] 1954, v. 15, [no. 1] p. 13-20.

DESCRIPTORS: \*Oxidation, \*Glutamic acid, \*Brain,  
Quantitative analysis, Distribution.

The oxidation reaction of glutamic acid proceeds at a  
greater rate in the dendritocellular mass (grey matter)  
than in the axons (white matter). The intensity of the  
reaction depends on the functional nature of the par-  
ticular area. Greatest intensity is demonstrated by  
dendrito-cellular masses of those parts which are  
associated with motor functions. The distribution of  
the substrates of the reaction, is uniform between the  
various parts, irrespective of function. (Author)

62-20324

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62-20324

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Biochemistry, TF, v. 9, no. 10)  
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Reamination Paths of the Adenylic System  
and Muscle Tissues, by P. A. Kometiani, E. E.  
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RUSSIAN, bino per, Biokhim, Vol XXI, No 3,  
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Klein, E. E.  
SOURCES OF AMMONIA FORMATIONS IN BRAIN  
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Order from SLA \$1.10

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I. Klein, E. E.

[Summary] trans. of unidentified Russian (?) article,  
n.p., n.d.

DESCRIPTORS: \*Brain, Tissues (Biology), \*Ammonia,  
\*Adenine derivatives, Glumatic acid, Glutaminases.

(Biological Sciences--Biochemistry, TT, v. 8, no. 7)

Office of Technical Services

Formaldehyde Copolymer, by E. T. Klein,  
11 pp.

JAPANESE, Patent No 2194, 12 Mar 1960.

~~ATS-2242J~~  
ATS/JJ-2499

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The Chemical Composition of the Nucleic Acids of  
Malignant Tissue, by G. Klein, J. Beck, 24 pp.

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pp 163-177.

SLA Tr 57-403

Sci - Chem; Med  
Jul 57

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Klein, G. and Herndlhofer, E.  
MICROCHEMICAL DETECTION OF ALKALOIDS  
IN PLANTS, II. [1962] 12p.  
Order from K-H \$15.00 K-H 4078

Trans. of Österreichische Botanische Zeitschrift  
(Austria) 1927, v. 76, p. 222-228.

DESCRIPTORS: Microchemistry, \*Plants, \*Alkaloids,  
\*Detection (Chemical).

(Chemistry--Analytical, TT, v. 8, no. 10)

62-22496

- I. Klein, G.
- II. Herndlhofer, E.
- III. K-H-4078
- IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

C226345

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1. Exploitation of the Breakthrough by Large Mobile Units, by D. Nikishov, 23 pp; 2. Control of a Tank Corps When It Is Committed in a Breakthrough, by G. Klein, 10 pp., ~~SECRET~~ UNCLASSIFIED

Full translation.

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ID GSUSA G-591-C (1-2)

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The Application of the Method of "Compensation of Moments" in the Calculation of Pipes and Arches, Allowing for the Plastic Properties of Ferro-Concrete, by G. K. Klein.

RUSSIAN, per, Beton i Zhelezobeton, No 2, 1956, pp 59-64.

NLL M. 2579

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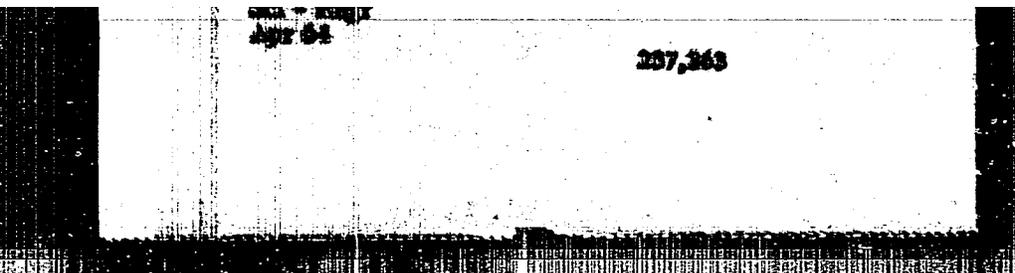
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Operational Chart as Criterion of the Shape and  
Performance of a Drill, by H. Klein.  
GERMANY, *ger. Vorkonturtechnik und Maschinenbau*,  
Vol XLVII, No II, pp 577-603  
CARD No 609



Tentative Standards for Disintegrating Property  
Solubility and External Nature of Moulded  
Drugs and for the Type of Substances Permitted  
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J. Richter, H. Klein,

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194, 1957

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Metal Sheets and their Development for Quality,  
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pp 189-196.

SLA 57-3091

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The Physical and Mathematical Basis for Calculating  
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by Means of Difference Equations, by  
H. Klein,

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pp 441-454.

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Scientific - Mathematics

May 55 CTB

Esters for Monofunctional Alcohols as PVC  
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11 pp.

GERMAN, per, Kunststoffe, Vol XLVI, 1956,  
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CIA/FDD XX-412

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem  
Mar 58

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IAC INTERNAL USE ONLY

Investigation of the Influence of Friction on the  
Preload Tension and Starting Moment of Screw Joint:  
by R. Kellerman, H. C. Klein.

GERMAN, par, Konstruktion, No 2, 1955.

NISI 2420

Sci - Engr

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Starting Torques for Tightening Bolted Joints, by  
R. Kellermann, H. Ch. ~~Slein~~  
K

GERMAN, per, Werkstattstechnik, No 4, 1960, pp  
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BISI 1787

Sci - Engr

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A Hydrostatic Refraction and Temperature  
Measuring Apparatus, by H. Klein, O. Sonntag,  
19 pp.  
ZITATION, per, Acta Hydrophysica, Vol VIII,  
No 1, 1963, pp 23-42.  
Mary Tr 622/133 977

Gestagenic Action of Desoxycorticosterons and Testosterone, by I. Klein, G. K. Ober, 6 pp.

Full translation.

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Scientific - Chemistry

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COMPOSITIONS BASED ON COPOLYMERS OF  
ETHYLENE AND VINYL ACETATE. [1963] 5p  
Order from OTS, SLA, or ETC \$1.10 TT-63-20841

Trans. of French patent 1,323,377, 23 Feb 63,  
FV no. 898,809, filed 23 May 62 (filed in U.S.A. as  
no. 112,757, 26 May 61) by E. I. DuPont de Nemours  
and Co., USA (pub. in Bulletin Officiel de la Propriete  
Industrielle (France) 1963, no. 14).

(Materials--Adhesives, TT, v. 11, no. 11)

TT-63-20841

I. Klein, I. M.  
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Office of Technical Services

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Acid Ester, by G. Hitzberger, K. Klein.  
GERMAN, per, Wiener Medizinische Woch-  
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NTC 69-11583-060

*K. Klein*

Sci-BQM  
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Clinical Experiences with 2-Piperidine-Ethyl-  
2-Carboxylic Acid Hexanone-Benzyl Ester  
(Hydrochloride), by K. Klein.

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schrift, Vol 108, No 8, 1957, pp. 176-8.

NTC 69-11581-060

*K. Klein*

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Experiments Concerning the Effect of RA 8  
Upon Circulation and Pulmonary Function,  
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K. Klein, O. Fehler, 12 pp.

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DISPERSION RELATIONS AND THE ABSTRACT AP-  
PROACH TO FIELD THEORY. International Science  
Review Series, Vol. 1. 1961, 288p.  
Order from GB \$4.95

Compilation of new material including the classical  
papers of Lehmann, Symanzik, Zimmermann and Jost.

DESCRIPTORS: \*Quantum mechanics, Theory.

(Physics--Theoretical, TT, v. 6, no. 7)

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- I. Title: Dispersion relations
- I. Klein, L., ed.
- II. Title: International...
- III. Gordon and Breach,  
Publishers, Inc.,  
New York

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Absorption of Hematropine, Pilocarpine and  
Everine, by Miklos Klein, 13 p.

GERMAN, manuscript, Archiv fur Ophthalmol, 1934,  
Vol. CXXI, No 1, pp 25-31.

SLA 60-10505

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Vol. III, No 3

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Absorption of Atropine, by Miklos Klein,  
24 p.

GERMAN, per, Graefe's Arch Oph thalmol , 1933,  
Vol CXXIX, No 3, pp 413-425.

SLA 60-10506

Sci  
Apr 60  
Vol III, No 3

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Experimental Studies of the Eye in Regard to  
Absorption from Ointments, by H. Klein,  
L. Scheffer, <sup>10</sup> ~~15~~ p .

GERMAN, manuscript Arch Ophtalmol, 1932, Vol  
Vol CXXIII, No 3, pp 460-471.

SLA 60-10507

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Vol III, No 3

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Klein, O. and Lange, E.  
NORMAL VOLTAIC POTENTIALS  $\Delta\psi_0$  OF THE  
MOST IMPORTANT ELECTROCHEMICAL TWO-  
PHASE SYSTEMS, ESPECIALLY OF THE ELEC-  
TRODES: METAL/METAL SALT SOLUTION. [1961]  
22p.  
Order from ATS \$36.95                      ATS-10N54G

Trans. of Z[eitschrift für] Elektrochem[ie] (Germany)  
1937, v. 43, no. 8, p. 570-584.

DESCRIPTORS: \*Electrochemistry, Phase studies,  
Voltage, Electric potential, Electrodes, Electrolytes,  
Solutions.

(Unannounced)

61-25660

- I. Klein, O.
- II. Lange, E.
- III. ATS-10N54G
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Normal Volta Potentials,  $\psi_0$  of Electrochemical  
Two-Phase Systems Along with a Contribution  
to the Time-Dependent Changes of the Surface  
Structure of Highly Concentrated Electrolyte  
Solutions, by O. Klein, E. Lange, 10 p.

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No 8, pp 562-568.

FTS-458-65  
ATS-27L33G

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The Representation of Fixed Complement With Method  
Anti-Complement, by P. Klein, P. Burkholder.

GERMAN, per, Schweizerische Zeitsche Zeit fuer  
Allgemeine Pathologie und Bakteriologie, Vol XXII,  
1959, pp 729-731. (text in German language) 907328

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Sci. - Medicine  
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Viruses Isolated from Monkeys with Special  
Reference to the Simian Vacuolate Virus  
40 (SV 40), by A. Fenyves, R. Klein,  
ROMANIAN, per, Studii si Colectari de  
Inframicrobiologie, Vol 14, 1963, pp 783-799.  
JPRS CSO: NY 13641

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Sci-84M  
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I. Recent Research on Experimental Leukemias; II. Attempt at Interpretation of the Origin of Leukemias and Other Cancers. A Synthetic Theory. The Mitochondrial Theory, by R. Klein, 20 pp.

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WEur - France

Scientific - Medicine

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Phytogeography and Notes on the Vegetation of the Municipality of Curitiba, by Roberto M. Klein and Gert Hatschbach, 20 pp. PORTUGUESE, per, Boletim da Universidade do Paraná -- (Geografia Física, No 4, Dec 1962, pp. 5-27.  
JPRS 35540

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LA-Brazil  
Geo  
May 66

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Klein, Rudolf and Wegner, Udo.  
MODERN IDEAS ON TRACKLAYING USING J-FLEX  
AND T-FLEX SPRING SPIKES. [1958] [13]p.  
Order from SLA \$1.60 61-16217

Trans. of [ETR] Eisenbahntechnische Rundschau  
(West Germany) 1957, no. 7, p. 266-273.

DESCRIPTORS: \*Railroad tracks, Steel, Heat treat-  
ment, Elasticity, Damping, Friction, Load distribu-  
tion, \*Studs, \*Connecting rods, Springs, Design.

J-Flex and T-Flex spring spikes represent the fulfill-  
ment of a plan to provide a firm connection between  
rail and sleeper with adequate elasticity and damping  
ability and little bulk, the load causing changes in  
shape with a minimal wear, which being calculated  
accurately to meet the requirements, will give a long  
life. In J-Flex and T-Flex spring spikes all scientific  
(Machinery--Transport, TT, v. 7, no. 4) (over)

61-16217

1. Title: J-flex
  2. Title: T-flex
  3. Title: Spring spikes
- I. Klein, R.  
II. Wegner, U.

191055

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Device for Converting the Ionizing  
Energy, Emerging From a Nuclear  
Reactor, Into Electricity, by  
S. Klein, P. Kraus.  
FRENCH, rpt, Paper Presented at the 6th  
AAARD Combustion and Propulsion  
Colloquium, Cannes, March 16, 20, 1964.  
NASA TT F-9598

*S. Klein*

Sci-Elect  
Mar 66

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Klein, S.

THE DIRECT CONVERSION OF THERMAL ENERGY INTO ELECTRICAL ENERGY. [1963] [21]p. (foreign text included) 2 refs.

Order from SLA \$2.60

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*K-H-12511*

Trans. of International Conference on Ionization Phenomena in Gases (no. 5) Munich, 1961. Proceedings, p. 806-814.

DESCRIPTORS: \*Energy conversion, \*Thermoelectricity, Ionization, Vapors, Mercury, Electrodes, Temperature, Tests, Measurement, \*Electricity

We have been able to establish an important separation of positive and negative electric charges in a jet of ionized vapour, metallic or otherwise (mercury, cesium and water) which tends to condense at room temperature. These pressurized vapours, ionized by an H. F. source, enter through a vent into an expansion chamber. (Physics--Electricity, TT, v. 10, no. 4) (over)

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I. Klein, S.

*35*

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The Direct Conversion of Thermal Energy  
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USSSR, rpt, Proceedings 5th Int Conf.  
Ionication Phenomena in Gases, Leningrad, 1961,  
pp 606-614, 9234596  
AEC-ORNL-Tr-29

*Klein, S.*

Sci - Elec  
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A Process for Conversion of Ionizing  
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Electricity, by Siegfried Klein.  
FRENCH, rpt, Proc 6th Int Conf on Ionization  
Phenomena in Gases, Vol IV, 1965, pp 537-541.  
9251435

AEC- BNL-Tr-28

Siegfried Klein

Sci-Phys

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Conversion and Efficiency of the Ionizing Energy  
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11 pp.

FRENCH, rpt, Sur un Procédé de Conversion en Electricité  
D'Énergie Ionisante Issue d'un Reactor Nucléaire.

Nov 1964.

Navy Tr 4049/BuShips Tr 886

p 86

Sci-Electr  
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**Klein, Siegfried.**  
**ELECTRICITY: ON AN EFFECT OF DIRECT CON-**  
**VERSION OF HEAT TO ELECTRICITY (Electricité -**  
**Sur un Effet de Conversion Directe de la Chaleur en**  
**Électricité). [1963] [5]p. (foreign text included) 3 refs.**  
Order from SLA \$1.10 63-14376

Trans. of Academie des Sciences [Paris]. Comptes  
Rendus (France) 1962, v. 254, no. 1, p. 1946-1947  
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: \*Electricity, \*Energy conversion,  
Ionization, Vapors, \*Thermoelectricity.

(Physics--Electricity, TT, v. 10, no. 4)

I. Klein, S.  
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Klein, U. E.  
PULMONARY TISSUE TRANSFORMATIONS BY  
TOBACCO SMOKE CONDENSATE IN ANIMAL  
EXPERIMENTS. [1963] 12p. (figs. omitted) 23 refs.  
Order from SLA \$1.60 63-16655

Trans. of Beiträge zur Tabakforschung [sic] 1962,  
no. 5, p. 180-185.

DESCRIPTORS: Tissues (Biology), \*Lungs, \*Tobacco,  
\*Smokes, Laboratory animals, Toxicity, Cigarettes.

After an introductory literature survey on the question  
of inducing lung cancer in animal experiments by the  
direct inhalation of tobacco smoke or by intrapulmonary  
application of smoke condensates, a method is described

63-16655

I. Klein, U. E.

1247328

for the single pertracheal introduction of smoke condensate into the peripheral sections of the bronchial system of rats. A histological examination of the lungs (Biological Sciences--Toxicology, TT, v. 10, no. 7(over))

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The Behaviour of Travelling Wave Tubes in the  
Dispersive Region of the Slow-Wave Structure, by  
W. Klein, W. Friz, 20 pp.

GERMAN, per, Archiv der Elektrischen Übertragung,  
Vol VII, 1953, pp 236-248. CIA9017115

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Sci - Physica  
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The Use of Hole Coupling in the Centimetre Wave-  
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GERMAN, per, Elektrotech Zeitschrift, Vol LXXIII,  
No 1, 1952, pp 5-9.

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Scientific - Electronics  
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Twin Formation in Silver Halogenide  
Crystals of Photographic Emulsions,

by B. Klein, et al.

GERMAN, per, Mitt Forschungsab Agfa  
Leverkusen-Hachen, Vol IV, 1964,

pp 65-89.

Chem Trans Sv No 2227

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*B. Klein*

Sci-Chem  
Mar 67

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Summary of Present Concepts of Spectral  
Sensitization, by E. Klein, R. Matejec.  
GERMAN, per, Mitt Forschungslab Agfa  
Leverkusen-Muenchen, Vol IV, 1964,  
pp 16-37.  
Chem Trans Sv No 2100.

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*E. Klein*

Sci-Chem  
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Growth and Crystal Form of the Silver  
Halide Crystals of Photographic  
Emulsions, by E. Klein, E. Moisar.  
CHEMAN, per, Mitt Forschungslab Agfa  
Leverkusen-Munchen, Vol IV, 1964,  
pp 38-64.  
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*E. Klein*

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New Building Systems For Dwellings-the  
"Rottinghuis" System, by F. Klein.  
GERMAN, per, Cement, Vol 10, No 23-24,  
1958, pp 933-340.  
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*F. Klein*

Sci -  
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A Helix LINCOLN Accelerator for Electrons ~~as a~~ 124  
Model for a Proton Accelerator, by Horst Klein,  
23 pp.  
CHERMAN, per, Zeit. Angew. Phys., Vol 18, 1964,  
pp 143-149.  
ARCL-2287

*Horst Klein*

Sci/Physics  
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Polygraphic Study of Sleep in Birds, by  
M. Klein, et al,  
SCIENCE, ser, C R Soc Biol, Vol CLVIII, no 176,  
1964, pp 99-103,  
NSA HR 3-20-67

*M. Klein*

Sci-1446

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Normal Volta Potentials of the More Important  
Electro-Chemical Two-Phase Systems, In Particular  
of Metal Electrodes in Metal Salt Solutions, by  
O. Klein, E. Lange.

GERMAN, per, Zeitschrift fur Elektrochemie,  
Vol. 43, No. 8, 1937, pp 570-584

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Sci -  
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Normal Volta Potentials  $\Delta\psi^0$  of the More Important  
Electro-chemical Two-phase Systems, in Particular  
of Metal Electrodes in Metal Salt Solutions, by  
O. Klein, E. Lange.

GERMAN, per, Zeitschrift fur Elektrochemie, Vol 43,  
No 8, pp 570-584, 1937.  
CSIRO/No. 6636

O Klein

Sci -  
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On A Process of Conversion into Electricity  
of the Ionizing Energy Produced by a Nuclear  
Reactor, by S. Klein.  
FRENCH, per, Comptes Rendus, Vol 258,  
No 10, 1964, pp 2767-2770.  
NTC 69-12443-18L

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Sci-Nucl Sci.  
Aug 69

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Experimental Studies on the Nucleic Metabolism, <sup>47</sup>  
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GERMAN, per, Hoppe Seyler Z Physiol Chem, Vol  
231, 1935, pp 125-143.

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Direct Beam Transmission Tests Over a Long  
Distance in Optical Visibility Between France  
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1 Nov 1953, Berne/Paris, Encl to Rpt R-504-53.

ID 1193<sup>1</sup>33

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Scientific - Electricity

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CIA 2210303

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On the Dimensions of Helices in Travelling  
Wave Tubes, by Werner Klein, 11 pp.

GERMAN, per, Archiv der Elektrischen Übertragung,  
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